

WHAT IS CLAIMED IS:

1. In a method in which a feedstock containing an organic halide either alone or in admixture with an organic compound is gasified or atomized and subjected to the reaction with calcium oxide, barium oxide or a mixture thereof that are heated at 400 - 700°C, whereby the halogen in the organic halide is converted to a calcium halide and/or a barium halide, the improvement wherein a bed of calcium oxide and/or barium oxide in particulate form is continuously moved through the reaction zone such that it enters into countercurrent reaction with the feedstock and the reaction is performed in a reaction column equipped with an agitating/moving means by which the halide which is the product of reaction between the organic halide and said oxide is continuously discharged to the outside of the reaction zone.

2. In an apparatus in which a feedstock containing an organic halide either alone or in admixture with an organic compound is gasified or atomized and subjected to the reaction with calcium oxide, barium oxide or a mixture thereof that are heated at 400 - 700°C, whereby the halogen in the organic halide is converted to a calcium halide and/or a barium halide, the improvement comprising:

- a) a means for gasifying or atomizing the feedstock containing the organic halide either alone or in admixture with the organic compound;
- b) a heating means for heating the particles of calcium oxide and/or barium oxide at a controlled temperature of

400 - 700°C;

c) a means for supplying the particles of calcium oxide and/or barium oxide continuously; and

d) a reaction column equipped with a supply section for the feedstock as supplied from said gasifying or atomizing means and which contains the organic halide either alone or in admixture with the organic compound, a reactive section which is heated by said heating means and in which a moving bed of said oxide particles is continuously brought into countercurrent reaction with said feedstock so that the halogen in the organic halide is converted to a calcium halide and/or a barium halide, and an agitating/moving means by which said resulting calcium halide and/or barium halide is continuously discharged to the outside of the reaction system.